

## TRANSMITTAL LETTER

In re Application of:

SOLHAGE, F. et al.

Serial No.: 10/676,176

Filing Date: October 1, 2003

Title: CATIONISED POLYSACCHARIDE PRODUCT :

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

:  
: Docket: ANO 6277 US/3166

:  
: Examiner: ----

:  
: Group Art Unit: ----

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First-Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

on December 29, 2003

Lynn Brush  
Lynn Brush

Sir:

☒ Transmitted herewith find the document(s) related to this application:

1. TRANSMITTAL LETTER IN DUPLICATE;
2. INFORMATION DISCLOSURE STATEMENT;
3. PTO-1449 FORM;
4. DOCUMENTS (67);
5. CERTIFICATE OF MAILING; and
6. POST CARD

☐ Applicant hereby petitions for an extension of time under 37 CFR 1.136 of:

☐ One Month (\$110.00)

☐ Two Months (\$ 420.00)

☐ Three Months (\$950.00)

☐ Four Months (\$1480.00)

The total fee believed due is \$0.00. Please charge this amount and any other fees which may be due (including filing fees under 37 CFR 1.16 and processing fees under 37 CFR 1.17) to Deposit Account No. 01-1350. If an extension of time is required but has not been requested above, Applicant hereby petitions for an extension of time sufficient for the attached document(s) to be timely. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Michelle J. Burke  
Michelle J. Burke  
Attorney for Applicant(s)  
Reg. No. 37,791

Akzo Nobel Inc.  
Intellectual Property Department  
7 Livingstone Avenue  
Dobbs Ferry, NY 10522-3408  
Tel No.: (914) 674-5459



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

-----  
In re Application of:  
SOLHAGE, F. et al.

Serial No.: 10/676,176  
Filing Date: October 1, 2003

Title: CATIONISED POLYSACCHARIDE PRODUCT :  
-----

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

:  
: Docket: ANO 6277 US/3166  
:  
: Examiner: ----  
:  
: Group Art Unit: ----

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First-Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

on December 29, 2003

Lynn Brush  
Lynn Brush

INFORMATION DISCLOSURE STATEMENT

In accordance with the requirements of 37 CFR §1.56, applicants submit the documents attached hereto to be made of record in the above-identified case. A listing of said documents on form PTO-1449 is also attached.

The present Information Disclosure Statement is being filed within three months of the filing date; therefore, no filing fee is believed to be required. If a filing fee is required, the Commissioner is hereby authorized to charge applicants' deposit account 01-1350 for the full amount of said fee.


European Patent Application Numbers 303 039, 400 361 and 874 000 are not in the English language. A concise explanation of the relevance of these references is discussed on page 1, line 35 and page 10, line 29. Additionally, applicants submit herewith

corresponding U.S. Patent Number U.S. 4,981,958 (EP 303 039), U.S. 5,116,967 (EP 400 361) and an English language copy of Derwent Abstract No. 012127697 (EP 874 000).

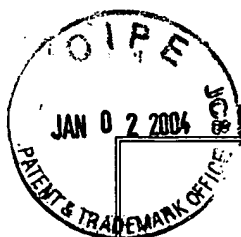
This Statement is not intended to represent that no better art exists. Applicants reserve the right to contest the applicability of the documents attached hereto as prior art in the event that any information is discovered which demonstrates that said documents do not qualify as prior art.

Consideration of the present Information Disclosure Statement is respectfully requested. The claimed invention is, however, deemed to represent a patentable departure from the teachings of the prior art.

Respectfully submitted,

  
Michelle J. Burke  
Attorney for Applicant(s)  
Reg. No. 37,791

Akzo Nobel Inc.  
Intellectual Property Department  
7 Livingstone Avenue  
Dobbs Ferry, NY 10522-3408  
Tel No.: (914) 674-5459



**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)  
PTO-1449 (modified)

Atty. Docket #

ANO 6277 US / 3166

Serial No.

10/676,176

Applicant  
Solhage, F. et al.

Filing Date  
October 1, 2003

Group Art Unit

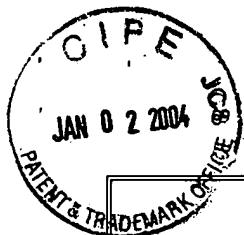
**U.S. PATENT DOCUMENTS [continued on page 2]**

Init	Document Number	Date	Name	Class	Subclass	Filing Date
	2,876,217	03-1959	Paschall	260	233.3	
	3,422,087	01-1969	Caesar	260	233.3	
	4,070,236	01-1978	Carrard et al.	162	164 R	
	4,388,150	06-1983	Sunden et al.	162	175	
	4,687,519	08-1987	Trzasko et al.	106	211	
	4,755,259	07-1988	Larsson	162	178	
	4,785,087	11-1988	Stober et al.	536	111	
	4,927,498	05-1990	Rushmere	162	168	
	4,954,220	09-1990	Rushmere	162	168.3	
	4,961,825	10-1990	Andersson et al.	162	175	
	4,980,025	12-1990	Andersson et al.	162	168.3	
	4,981,958	01-1991	Stober et al.	536	45	
	5,116,967	05-1992	Fischer et al.	536	50	
	5,127,994	07-1992	Johansson	162	168	
	5,129,989	07-1992	Gosset et al.	162	147	
	5,176,891	01-1993	Rushmere	423	328.1	
	5,277,764	01-1994	Johansson et al.	162	175	
	5,368,833	11-1994	Johansson et al.	423	338	
	5,447,604	09-1995	Johansson et al.	162	181.6	
	5,463,127	10-1995	Deavenport et al.	564	292	
	5,470,435	11-1995	Rushmere et al.	162	181.6	
	5,538,596	07-1996	Satterfield et al.	162	164.5	
	5,543,014	08-1996	Rushmere et al.	162	181.6	
	5,571,494	11-1996	Saastamoinen	423	338	
	5,573,674	11-1996	Lind et al.	210	702	
	5,584,966	12-1996	Moffett	162	168.1	
	5,603,805	02-1997	Andersson et al.	162	168.3	
	5,607,552	03-1997	Andersson et al.	162	181.6	
	5,643,414	07-1997	Johansson et al.	162	164.6	
	5,688,482	11-1997	Saastamoinen	423	335	
	5,707,493	01-1998	Saastamoinen	162	164.1	
	5,733,414	03-1998	Stockwell	162	164.5	
	5,755,930	05-1998	Satterfield et al.	162	164.1	
	5,827,372	10-1998	Bhirud et al.	127	71	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO-1449 (modified)				Atty. Docket #		Serial No.	
				ANO 6277 US / 3166		10/676,176	
				Applicant Solhage, F. et al.			
				Filing Date October 1, 2003		Group Art Unit	
U.S. PATENT DOCUMENTS							
Init	Document Number	Date	Name	Class	Subclass	Filing Date	
	5,858,174	01-1999	Persson et al.	162	164.1		
	6,033,524	03-2000	Pruszynski et al.	162	165		
	6,103,885	08-2000	Batelaan et al.	536	18.7		
FOREIGN PATENT DOCUMENTS [continued on page 3]							
	Document Number	Publ. Date	Country	Class	Subclass	Translation	
						Yes	No
	041 056 B1	12-1981	European Patent Office	D21D	3/00		
	189 935 A2	08-1986	European Patent Office	C08B	11/193		
	303 039 B1	02-1989	European Patent Office	C08B	31/12		X
	400 361 B1	12-1990	European Patent Office	C08B	31/12		X
	500 770 B1	09-1992	European Patent Office	D21H	21/10		
	603 727 B1	06-1994	European Patent Office	D21H	17/28		
	693 146 B1	01-1996	European Patent Office	D21H	17/53		
	695 385 B1	02-1996	European Patent Office	D21H	17/48		
	702 697 B2	03-1996	European Patent Office	C08B	11/15		
	737 210 B2	10-1996	European Patent Office	C08B	31/00		
	752 496 B1	01-1997	European Patent Office	D21H	23/04		
	874 000 A2 & A3	10-1998	European Patent Office	C08B	37/00		X
	1 080 271 B1	03-2001	European Patent Office	D21H	23/04		
	1 080 272 B1	03-2001	European Patent Office	D21H	23/08		
	1 090 054 B1	04-2001	European Patent Office	C08G	18/08		
	WO 94/05596 A1	03-1994	PCT International	C01B	33/143		
	WO 94/24169 A1	10-1994	PCT International	C08B	11/15		
	WO 95/21295 A1	08-1995	PCT International	D21H	17/48		
	WO 95/21296 A1	08-1995	PCT International	D21H	17/53		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) [continued on page 3]							
	Derwent Abstract No. 012127697 abstracting EP 874 000.						
	Derwent Abstract No. 1987:578519 abstracting JP62149702.						
	English language translation of Japanese Laid-Open No. 1987-149702; laid-open date July 3, 1987.						
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO-1449 (modified)				Atty. Docket #		Serial No.	
				ANO 6277 US / 3166		10/676,176	
				Applicant Solhage, F. et al.			
				Filing Date October 1, 2003		Group Art Unit	
U.S. PATENT DOCUMENTS							
Init	Document Number	Date	Name	Class	Subclass	Filing Date	
FOREIGN PATENT DOCUMENTS							
	Document Number	Publ. Date	Country	Class	Subclass	Translation	
						Yes	No
	WO 99/55964 A1	11-1999	PCT International	D21H	23/04		
	WO 99/55965 A1	11-1999	PCT International	D21H	23/08		
	WO 99/67310 A1	12-1999	PCT International	C08G	18/08		
	WO 00/49227 A1	08-2000	PCT International	D21H	21/10		
	WO 02/12626 A1	02-2002	PCT International	D21H	23/76		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	Patel, S. P. et al., "Synthesis and Characterization of Quaternary Ammonium Compounds of Guar Gum and Hydroxyethyl Guar Gum," Starch/Stärke, Vol. 41, No. 5 (1989) pp. 192-196.						
	Iler, R. K., et al., "Degree of Hydration of Particles of Colloidal Silica in Aqueous Solution," J. Phys. Chem., Volume 60 (1956), pp. 955-957.						
	Sears, Jr., G. W., "Determination of Specific Surface Area of Colloidal Silica by Titration with Sodium Hydroxide," Analytical Chem., Vol. 28, No. 12 (1956), pp. 1981-1983.						
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.